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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/932,343	08/17/2001	Yuan Yao	040-00-002	4205	
75	590 11/04/2002				
Larry J. Palguta Honeywell Law Department 3520 Westmoor Street			EXAMINER		
			CUEVAS, PEDRO J		
South Bend, IN	46628		ART UNIT PAPER NUMBE		
			2834	2834	
			DATE MAILED: 11/04/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examiner		Application No.	Applicant(s)				
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE of this communication appears on the cover sheet with the correspondence address − Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. The MAILING DATE OF THIS COMMUNICATION. If the period for reply sponded above is less than there (20) days, as reply with the statutory minimum of thinty (30) days will be considered stress). If the period for reply sponded above is the statutory period will appear St. (MONTHS from the mailing date of this communication. If the period for reply sponded above is the statutory period will appear St. (MONTHS from the mailing date of this communication. If the period for reply sponded above is the statutory period will appear St. (MONTHS from the mailing date of this communication. If the period for reply sponded above is the statutory period will appear St. (MONTHS from terming date of this communication. If the period for reply sponded above is the statutory period will appear and will develop the sponded and the	,						
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A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALLING DATE OF THIS COMMUNICATION. Extensions of term may be assigned under the procession of 32 CPR 1.13(g). In or event, however, may a reply be limely filed If the period for reply specified above is been stein from (20) stays, a reply within the statutory printing of the reply (30) days, and the considered filed). If the period for reply specified above, the maximum statutory period stay and the period for reply specified above, the maximum statutory period stay of the reply into the period for reply with the statutory maintained of the reply will be period for reply specified above, the maximum statutory period stage) and will expect as (5) (mMCNTS form the mailing date of this communication, even if threely filed, may reduce any searned patient term adjustment. Sea 37 CPR 1.70.4(n). Status 1) Responsive to communication(s) filled on	The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
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DETAILED ACTION

Specification

- 1. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.
- 2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following title is suggested: Load-Off Transient Acceleration Generator Control Apparatus.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-11 and 19-23 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,502,368 A to Syverson et al.

Syverson et al. clearly teaches the construction of a hybrid alternator with voltage regulator comprising:

a field current modulator (88), being a transistor, that repeatedly switches between an ON state and an OFF state to control a flow of field current to said power generator;

a free-wheeling path (Figure 13), including a freewheeling diode receiving an output of an impedance circuit that, when said field current modulator is in the OFF state,

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feeds excitation current received from said generator back to said power generator as a field current component;

an impedance circuit (Figure 4), being an RC circuit that:

selectively and temporarily absorbs excitation current in said free-wheeling path when said field current modulator is in the OFF state to reduce voltage overshoot in said power generator upon occurrence of an operating transition,

selectively and temporarily absorbs excitation current in said free wheeling path based on a generator line contactor command,

absorbs excitation current in said free-wheeling path following load-removal to reduce output voltage overshoot of said power generator,

absorbs excitation current in said free-wheeling path during power up of said power generator;

an impedance circuit by-pass (112), being a transistor, connected across said impedance circuit, said impedance circuit by-pass selectively providing a low-impedance path across said impedance circuit so that said impedance circuit does not absorb excitation current, and further comprising a controller (118) that switches said impedance circuit by-pass between an ON state and an OFF state; and

a field current modulation switch driver (86) that repeatedly switches said field current modulator between the ON state, in which excitation current from said generator is sent to ground, and the OFF state, in which excitation current from said generator is received by said free wheeling path.

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Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 12-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,502,368 A to Syverson et al. in view of common knowledge in the art.

Syverson et al. disclose the construction of a hybrid alternator with voltage regulator as described above.

However, it fails to explicitly disclose a method of controlling a power generator.

It must be noted that it would have been obvious to one skilled in the art at the time the invention was made to develop a method of controlling the invented hybrid alternator having the steps and processes recited in claims 12-18 for the purpose of properly operating the hybrid alternator system.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pedro J. Cuevas whose telephone number is (703) 308-4904. The examiner can normally be reached on M-F from 8:30 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor R. Ramírez can be reached on (703) 308-1371. The fax phone numbers for

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the organization where this application or proceeding is assigned are (703) 305-1341 for regular communications and (703) 305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Pedro J. Cuevas October 28, 2002

> TRAN NGUYEN PRIMARY EXAMINER